

# State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Oberrior
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director
Dianne R. Nielson, Ph.D.
Division Director

July 9, 1990

TO:

Board of Oil, Gas and Mining

THRU:

Dianne R. Nielson, Director

THRU:

Lowell P. Braxton, Associate Director, Mining

FROM:

D. Wayne Hedberg, Permit Supervisor

RE:

Request for Board Concurrence, Permit Transfer, Amount and Form of Replacement Reclamation Surety, Magnesium Corporation of America (Magcorp), Knolls Solar Evaporation Pond Project, M/045/022, Tooele

County, Utah

The Division seeks the Board's concurrence and acceptance of the amount and form of replacement reclamation surety provided by Magnesium Corporation of America (Magcorp) for the Knolls Solar Evaporation Pond Project, in Tooele County, Utah. Magcorp has acquired this mining property from the previous operator, Amax Magnesium Corporation, and will now assume continued operations and reclamation responsibilities for this project area.

Attached is an Executive Summary of the permitted operation, a copy of the Permit Transfer form (FORM MR-TRL), a revised reclamation surety estimate (\$110,000 - 1995 dollars), and a new Reclamation Contract (FORM MR-RC) Agreement. Magcorp hopes to have a replacement corporate surety bond delivered to the Division by July 13th. Gulf Insurance Company is the surety providing/guaranteeing the surety bond. This company is on the 1989 Federally published list of companies found acceptable as sureties and reinsurers on Federal bonds. A copy of the surety bond will be forwarded to the Board upon the Division's receipt.

Thank you for your time and consideration of this permitting action.

dwh Attachments WMN2/27

#### DOGM MINERALS PROGRAM

## CHECK LIST FOR BOARD APPROVAL OF FORM AND AMOUNT OF SURETY

Mine	Name_	KNOLLS	SOLAR	EVAP.	POND	PROJECT
File	No	M/04	5/022			

Item	Provided Yes No		Remarks
			10.10110
Executive Summary	Х		From Original Issuance of Permit
Location Map	Х		
Reclamation Bond Estimate	Х		Original Bond Estimate (REVISED)
Signed Reclamation Contract	Х		
Signed Power of Attorney/ Affidavit of Qualification	-		Forthcoming
Bond			Forthcoming
Surety Signoff (Other State/Federal Agencies)		Х	NA
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MN76/12

### EXECUTIVE SUMMARY - NEW PERMIT (June 1, 1987)

Page 2 Executive Summary M/045/022 June 1, 1987

Surface Water Description: No perennial or intermittent streams are found within the project area. The major surface water features in the general vicinity include the Great Salt Lake and the proposed west pond (to be created by the West Desert Pumping Project). Water Monitoring Plan: None proposed due to the saline nature of the water resource. Ecology: Vegetation Type(s): The majority of the project will be constructed on mud flats. This vegetation type is generally devoid of vegetation due to the high salt content. Small greasewood shrubs and iodine bush are sparsely distributed at densities less than 5 percent. Dune areas are mainly of the greasewood type, dominated by greasewood, shadscale and four-wing saltbrush Percent Surrounding Vegetative Cover: 0-5% for mudflats, 10-30% for dune areas Wildlife Concerns: Minimal concerns, limited wildlife use, no T & E species Surface Facilities: The proposed project consists of a 7.1 mile inlet canal, seven evaporation ponds, three small canals, four pump stations, and a 767 acre foot reservoir. Other associated facilities include a maintenence and office building, parking lots, on-site power facilities, and a 6.1 acre foot flush water reservoir. Mining and Reclamation Plan Summary: See attached summary. Surety: Amount: \$1,737,900

0457R

Form: Bond Renewable Term:

5 years 🚯

#### ATTACHMENT

Mining and Reclamation Plan Summary
AMAX Magnesium Corporation
Knolls Solar Ponds
ACT/045/022

June 1, 1987

AMAX Magnesium Corporation has requested the use of approximately 54,000 acres of public lands nears Knolls, Utah for the development of the Knolls Solar Evaporation Pond System designed to produce brines for magnesium extraction at their existing plant in Rowley, Utah. The ponds would be located adjacent to a 320,000 acre lake (west pond) to be created by the West Desert Pumping Project.

#### During Operations:

- Topsoil will be removed, stockpiled, and protected from erosion on all areas requiring revegetation.
- 2) Clay borrow areas will be stabilized and regraded to conform with the surrounding natural terrain.
- Topsoil will be redistributed over the regraded area.
- 4) Standard agronomic practices will be used to prepare the seedbed for drill and/or broadcast seeding. The disturbed areas will be reclaimed with native vegetative species.

#### Following Operations:

- All equipment, structures, and extraneous debris will be removed from the minesite.
- 2) Inlet and feed canals will be refilled and regraded.
- 3) Dikes will be breached in a manner that allows adequate drainage of the solar ponding area and restricts nonessential vehicular use.
- 4) All access and haulage roads not having an approved postmining land use will be reclaimed.
- 5) Interior dikes will be regraded. Exterior dikes will be reclaimed in a manner consistent with the approved postmining land determined by the Division and the Bureau of Land Management upon termination of mining activities.

0457R/113

Reclamation Estimate

May 31, 1990

Magnesium Corp. of America

Knolls Project Tooele County

M/045/022

#### Prepared by Utah State Division of Oil, Gas & Mining

#### **Reclamation Plan Details**

- \*Note-All Costs Taken From 1987 Division Estimate & Projected
- \*to 1995-\$ Using 1.84% Escalation Factor (Total Area = 176 acres)
- -No Reclamation of Haul Roads---Postmining Use
- -Grade Inlet Canal (52 acres), No. 2 Pump Feed Canal (12 acres), No. 7a Inlet Canal (26 acres)
- -Round Edges of Interior Dikes & Pond 7a (46 acres)
- -Dismantle Maintenance Bld Area, Dismantle Pump Stations, Grade Maint. Bld Pad & Reservoir Dikes (40 acres)

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Description		Units	\$/Unit	Cost (\$)
Inlet Canal	69	hr	128.99	8,900
No. 2 Pump Feed Canal	16	hr	131.25	2,100
No. 7a Inlet Canal	35	hr	128.57	4,500
Interior Dikes & Pond 7	50	hr	128.00	6,400
Dismantle Maint. Bldg. (3500 SF)	40	hr	277.50	11,100
Break & Bury Concrete (3500 SF)	40	hr	250.00	10,000
Dismantle Pump Stations	80	hr	262.50	21,000
Grade Bldg Pad & Reservoir Dikes	157	hr	142.68	22,401
	SUB	TOTAL		86,401
+10%	CONTINGENCY			8,640
	SUB	TOTAL	95,041	
	14,925			
тс	109,966			
ROUNDED TOTAL IN 1995-\$	\$110,000			



#### Magnesium Corporation of America

238 North 2200 West, Salt Lake City, Utah 84116 (801) 532-2043, Telex 6711664, Fax (801) 534-1407



DIVISION OF OIL, GAS & MINING

July 9, 1990

D. Wayne Hedberg Permit Supervisor State of Utah Natural Resources Oil, Gas & Mining 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

Dear Mr. Hedberg,

Enclosed are completed Form MR-TRL Form & Form MR-RC for M/045/022 which are submitted at your request in order to cancel bond #524-12-30 posted on behalf of AMAX Magnesium Corporation. This bond is being replaced with another bond of \$110,000 from Gulf Insurance, 4600 Fuller Drive, Irving, Texas 75038 on behalf of Magnesium Corporation of America.

The completed page 7 of the Reclamation Contract and the Mined Land Reclamation Act Bond MR Form #5 will be forwarded to you later this week when Gulf Insurance completes them.

Your cooperation and assistance in processing this bond replacement request is appreciated.

Sincerely,

Lee R. Brown Vice President

Magnesium Corporation of America

Enclosures